

FIG. 1A

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Variables Maintained At A Node

No.	No. Variable	Description	Type	Value
1	П	Node Identifier	Integer	1-N
2	Direction	Identifier for the ring	Binary	UPSTREAM/DOWNSTREAM
3	LPR <direction></direction>	Last packet received from <direction></direction>	PACKET	
4	LPT <direction></direction>	Last packet transmitted in <direction></direction>	PACKET	
5	PMSN _{CDirection}	Permission to transmit in <direction></direction>	Binary	ENABLE/DISABLE
9	TR <direction></direction>	Transmission Round in <direction></direction>	Binary	ODD/EVEN
7	TBR <direction></direction>	Transit Buffer Round in <direction></direction>	Binary	ODD/EVEN
∞	TBTH <direction></direction>	Transit Buffer Threshold in <direction></direction>	Integer	
6	NPQCR _{CDirection}	Number of packets queued in current TBR _{cDirection>}	Integer	0 Transit Buffer Size
10	NPTCR <direction></direction>	Number of packets transmitted in current TR _{cDirection} >	Integer	

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Packet Fields (Excluding Payload)

No.	Variable	No. Variable Description	Type Value	Value
-	Pkt.Src	Source Identifier	Integer 1 – N	1 – N
7	Pkt.Dst	Destination Identifier	Integer	
3	Pkt.PMSN	Pkt.PMSN Permission to transmit in the	Binary	Binary ENABLE/DISABLE
		opposite direction		
4	Pkt.Round	Pkt.Round Transmission round of the	Binary	Binary ODD/EVEN
		packet		

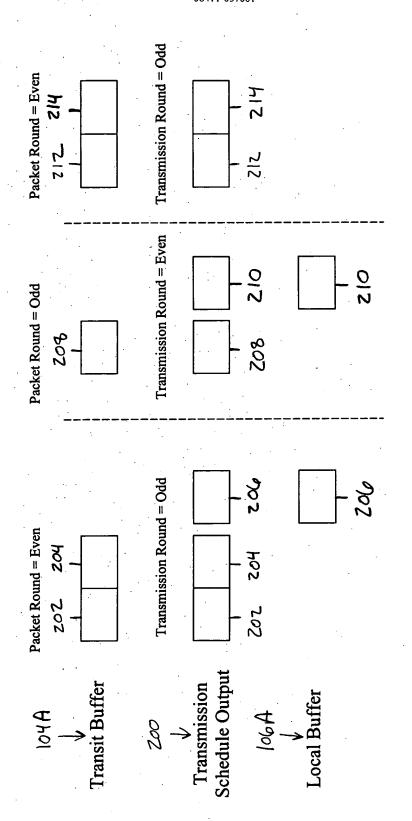
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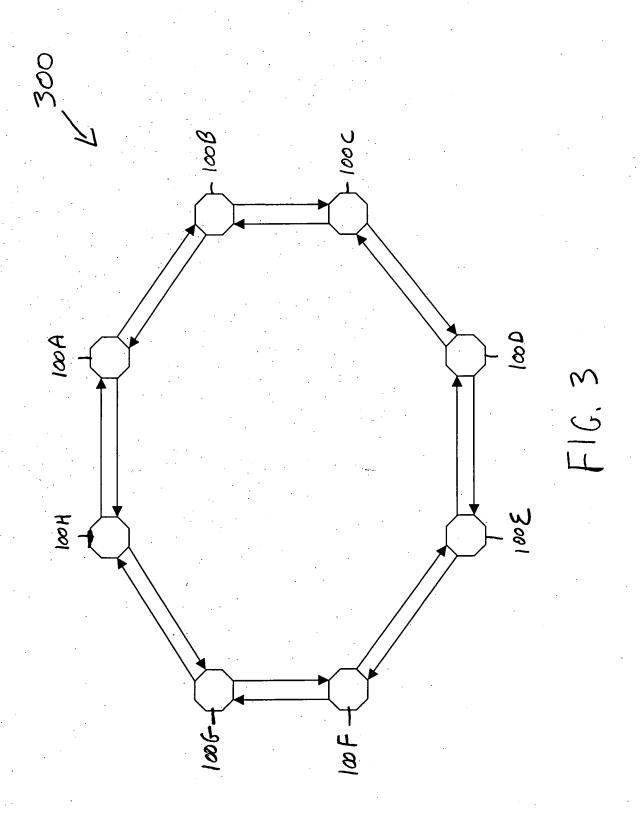
Changes To The Variables Maintained At The Node 100A

Time	(Pkt.Dst,	(NPQCR,	Packet that is	(LPR.Dst,
	rkt.Kound)	IBK)	queued in Transit	LPR.Round)
			Buffer 104A or 104B	
0		(0, ODD)	1	(-,-)
1	(2, ODD)	(0, ODD)	_	(2, ODD)
2	(5, ODD)	(1, ODD)	(5, ODD)	(5, ODD)
3	(7, ODD)	(2, ODD)	(7,000)	(1, ODD)
4	(2, EVEN)	(0, EVEN)	_	(2, EVEN)
5	(2, EVEN)	(0, EVEN)	_	(2, EVEN)
9	_	(0, EVEN)	Ξ,	(2, EVEN)
7	(5, ODD)	(1, EVEN)	(5, EVEN)	(5, ODD)
∞	(7, EVEN)	(1, ODD)	(1, ODD)	(7, EVEN)

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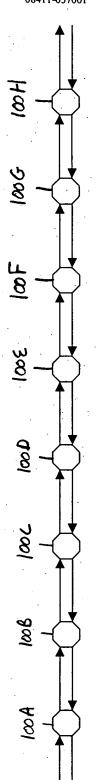


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ACCESS MECHANISMS FOR EFFICIENT SHARING IN A NETWORK
Srinivasan Ramasubramanian et al.
08411-037001





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